

Agricultural Marketing Service, USDA

§51.1543

METRIC CONVERSION TABLE

§ 51.1538 Metric conversion table.

Inches	Millimeters (mm)
1/8 equals	3.2
1/4 equals	6.4
3/8 equals	9.5
1/2 equals	12.7
5/8 equals	15.9
3/4 equals	19.1
7/8 equals	22.2
1 equals	25.4
1 1/4 equals	31.8
1 1/2 equals	38.1
1 3/4 equals	44.5
2 equals	50.8
3 equals	76.2
4 equals	101.6

Subpart—United States Standards for Grades of Potatoes ¹

SOURCE: 35 FR 18258, Dec. 1, 1970, unless otherwise noted. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981.

GRADES

§ 51.1540 U.S. Extra No. 1.

“U.S. Extra No. 1” consists of potatoes which meet the following requirements:

- (a) Similar varietal characteristics;
- (b) Firm;
- (c) Clean;
- (d) At least fairly well matured;
- (e) Fairly well shaped, with 50 percent or more well shaped;
- (f) Free from:
 - (1) Freezing;
 - (2) Blackheart;
 - (3) Late blight, southern bacterial wilt and ring rot; and,
 - (4) Soft rot and wet breakdown.
- (g) Free from injury caused by:
 - (1) Sprouts; and,
 - (2) Internal defects.
- (h) Free from damage by any other cause. See §§ 51.1564 and 51.1565.

(i) Size. The potatoes shall be not less than 2 1/4 inches in diameter or 5 ounces in weight and shall not vary

¹Packing of the product in conformity with the requirements of these standards shall not excuse failure to comply with the provisions of the Federal Food and Drug Cosmetic Act or with applicable State laws and regulations.

more than 1 1/4 inches in diameter or more than 6 ounces in weight.

(j) For tolerances see § 51.1546.

[35 FR 18258, Dec. 1, 1970; 36 FR 10771, June 3, 1971. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981]

§ 51.1541 U.S. No. 1.

“U.S. No. 1” consists of potatoes which meet the following requirements:

- (a) Similar varietal characteristics;
- (b) Firm;
- (c) Fairly clean;²
- (d) Fairly well shaped;
- (e) Free from:
 - (1) Freezing;
 - (2) Blackheart;
 - (3) Late blight, southern bacterial wilt and ring rot; and,
 - (4) Soft rot and wet breakdown.
- (f) Free from damage by any other cause. See §§ 51.1564 and 51.1565.
- (g) Size. Not less than 1 7/8 inches in diameter, unless otherwise specified in connection with the grade.
- (h) For tolerances see § 51.1546.

§ 51.1542 U.S. Commercial.

“U.S. Commercial” consists of potatoes which meet the requirements of U.S. No. 1 grade except for the following:

- (a) Free from serious damage caused by:
 - (1) Dirt or other foreign matter;
 - (2) Russet scab; and,
 - (3) Rhizoctonia.
- (b) Increased tolerances for defects specified in § 51.1546.

§ 51.1543 U.S. No. 2.

“U.S. No. 2” consists of potatoes which meet the following requirements:

- (a) Similar varietal characteristics;
- (b) Not seriously misshapen;
- (c) Free from:
 - (1) Freezing;
 - (2) Blackheart;
 - (3) Late blight, southern bacterial wilt and ring rot; and,
 - (4) Soft rot and wet breakdown.

²Potatoes in containers bearing official State Seed Certification Tags and Seals are not required to be fairly clean but shall be free from damage by dirt.

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(d) Free from serious damage by any other cause. See §§51.1564 and 51.1565.

(e) Size. Not less than 1½ inches in diameter, unless otherwise specified in connection with the grade.

(f) For tolerances see §51.1546.

UNCLASSIFIED

§51.1544 Unclassified.

“Unclassified” consists of potatoes which have not been classified in accordance with any of the foregoing grades. The term “unclassified” is not a grade within the meaning of these standards but is provided as a designation to show that no grade has been applied to the lot.

SIZE

§51.1545 Size.

(a) The minimum size, or minimum and maximum sizes may be specified in connection with the grade in terms of diameter or weight of the individual potato, or in accordance with one of the size designations in Table I or Table II: *Provided*, That sizes so specified shall not be in conflict with the basic size requirements for the grade.

(b) When size is designated as shown in Table II, the corresponding weight ranges shall apply. These size designations may be applied to potatoes packed in any size container: *Provided*, that the weight ranges are within the limits specified.

TABLE I

Size designation	Minimum diameter ¹ or weight		Maximum diameter ¹ or weight	
	Inches	Ounces	Inches	Ounces
Size A ²	1⅞	(³)	(³)	(³)
Size B	1½	(³)	2¼	(³)
Small	1¾	(³)	2½	6
Medium	2¼	5	3¼	10
Large	3	10	4¼	16

¹ Diameter means the greatest dimension at right angles to the longitudinal axis, without regard to the position of the stem end.

² In addition to the minimum size specified, a lot of potatoes designated as Size A shall contain at least 40 percent of potatoes which are 2½ inches in diameter or larger or 6 ounces in weight or larger.

³ No requirement.

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TABLE II
[Ounces]

Size designation	Minimum weight	Maximum weight
Under 50	15
50	12	19
60	10	16
70	9	15
80	8	13
90	7	12
100	6	10
110	5	9
120	4	8
130	4	8
140	4	8
Over 140	4	8

[35 FR 18258, Dec. 1, 1970, as amended at 37 FR 2745, Feb. 5, 1972. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981; amended at 56 FR 7553, Feb. 25, 1991]

TOLERANCES

§51.1546 Tolerances.

To allow for variations incident to proper grading and handling in each of the foregoing grades, the following tolerances by weight or equivalent basis, are provided as specified.

(a) *For defects*—(1) *U.S. Extra No. 1*. A total of 5 percent for potatoes in any lot which fail to meet the requirements for the grade: *Provided*, That not more than two-fifths of this tolerance, or 2 percent, shall be allowed for potatoes which are affected by freezing, southern bacterial wilt, ring rot, late blight, soft rot or wet breakdown, including therein not more than one-half of 1 percent for potatoes which are frozen or affected by soft rot or wet breakdown. See §51.1547.

(2) *U.S. No. 1*. A total of 8 percent for potatoes in any lot which fail to meet the requirements for the grade: *Provided*, That included in this tolerance not more than the following percentages shall be allowed for the defects listed:

(i) 5 percent for external defects;

(ii) 5 percent for internal defects; or,

(iii) 3 percent for potatoes which are affected by freezing, southern bacterial wilt, ring rot, late blight, soft rot or wet breakdown, including therein not more than 1 percent for potatoes which are frozen or affected by soft rot or wet breakdown. See §51.1547.